

DP-309055

NON-UNIFORM RIGIDITY INTERFACE
PANEL FOR A FLUID-FILLED SEAT BLADDER

Abstract of the Disclosure

A seat bladder weight estimation apparatus includes an interface panel having multiple regions of substantial rigidity separated by regions of insubstantial rigidity. The regions of substantial rigidity limit sensitivity to seat
5 foam variations, and the regions of insubstantial rigidity permit differential movement and angulation of the rigid regions for regional transfer of occupant weight to the bladder. The regional transfer of occupant weight to the bladder allows regional variation of the bladder sensitivity to occupant weight through various bladder geometry design features.